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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/725,424		12/03/2003	Hiroyuki Kojima	117756	117756 4778	
25944	7590	07/12/2005		EXAMINER		
OLIFF & BERRIDGE, PLC				DI GRAZIO, JEANNE A		
P.O. BOX 19 ALEXANDI		22320		ART UNIT PAPER NUMBER		
	,			2871		
				DATE MAILED: 07/12/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

٦.	Application No.	Applicant(s)					
	10/725,424	KOJIMA ET AL.	ON				
Office Action Summary	Examiner	Art Unit					
	Jeanne A. Di Grazio	2871)				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered time the mailing date of this c D (35 U.S.C. § 133).	ly. ommunication.				
Status							
1) Responsive to communication(s) filed on							
•	action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is							
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-10</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-10</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>03 December 2003</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.							
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct							
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Oπice	Action or form P	10-152.				
Priority under 35 U.S.C. § 119							
12) △ Acknowledgment is made of a claim for foreign a) △ All b) ☐ Some * c) ☐ None of: 1. △ Certified copies of the priority documents 2. ☐ Certified copies of the priority documents 3. ☐ Copies of the certified copies of the priority documents	s have been received. s have been received in Applicati rity documents have been receive	ion No	Stage				
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
See the attached detailed Office action for a list	or the certified copies flot receive	5 u .					
Attachment(s)	·						
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6/05,4/05&12/03.	Paper No(s)/Mail D		O-152)				
0.5.			<u> </u>				

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DETAILED ACTION

Priority

Priority to Japanese Patent Application No. 2002-370070 (Dec. 20, 2002) is claimed.

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

Receipt is acknowledged of Applicant's IDS of June 2, 2005, April 7, 2005 and December 3, 2003.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by United States Patent 5,835,139 (to Yun et al.) (Published Nov. 10, 1998).

Regarding claim 1, Yun Figure 7 illustrates a liquid crystal display (700) comprising an LCD panel (300)(=an electro-optical device) encased in a mounting case (mounting case = 520 + 500) and having an image display region on which projection light from a light source is incident and a mounting case (mounting case = 520 + 500) including a plate (rear case 500) disposed to face one surface of the electro-optical device (300) and a cover (front case 520) covering the electro-optical device (300), a portion of the cover (300) abutting against the plate (500) (when the pieces are assembled the front case abuts the rear case along its sides), the mounting case (520 + 500) accommodating the electro-optical device (300) by holding at least a portion of a peripheral region positioned at the circumference of the image display region of the electro-optical device (300) with at least one of the plate (500) and cover (520)(please note that upon assembly, all of the pieces are mutually held together) and at least one of the plate (500) and cover (520) being bonded to the electro-optical device (300)(screws 430 and screw holes 410c in rear case 500 bond with the screw holes 410a of the LCD panel 300).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 2 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over United States Patent 5,835,139 (to Yun et al.) (Published Nov. 10, 1998).

As to claim 2, Yun teaches that in a further embodiment, the assembling or fastening devices which include a double-sided adhesive tape, are located at side surfaces of the display such that the cover and rear case can be adhered to the display (Column 5, Lines 1-20).

It would have been obvious to one of ordinary skill in the art of liquid crystals at the time the invention was made to exchange screws for a double-sided adhesive tape because the device is easier to manufacture (Yun, Column 5, Lines 2-4)(stating "This example has an added advantage in that no screws are needed which makes the manufacturing method easy.").

As to claim 5, as noted, once the parts are assembled all of said parts are bonded over an entire peripheral region as opposed to just a portion of the device periphery.

Claims 3 and 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over United States Patent 5,835,139 (to Yun et al.)(Published Nov. 10, 1998) in view of United States Patent 5,853,179 (to Yamanaka).

As to claims 3 and 10, Yun does not appear to explicitly specify that the double coated adhesive tape (or mold material) has a heat conductivity of 0.6 W/m K or more and that the device is incorporated into a projection display.

Yamanaka is drawn to a liquid crystal display for a projector (Abstract and Column 1, Lines 11-34).

In Yamanaka, a transparent silicone adhesive is used to attach plates (G1 and G2 of Figure 1 for example) and the adhesive has a heat conductivity of 1.0 W/m K or higher (Column 4, Lines 22-25).

It would have been obvious to one of ordinary skill in the art of liquid crystals at the time the invention was made to modify to modify Yun in view of Yamanaka because in a projection display, heat dissipation is <u>critical</u> to the proper functioning of the device.

Yun states:

"In a liquid crystal display for use with a projector in particular, it is necessary to receive intense light from a light source in order to project an image onto a screen. Accordingly, temperature of the liquid crystal display greatly rises because of radiant heat from the light source, causing degradation of a displayed image quality." (Column 1, Lines 17-22).

Such an adhesive having such heat conductivity transmits heat to metal frames and to the outside without the need for costly fans and other costly heat dissipating devices (Column 6, Line 18-21 and 27-34).

As to claim 7, Yamanaka teaches that the metal frames has a black coating for flare prevention and light blocking (Column 10, Lines 25-30).

As to claims 8 and 9, the limitations "plating" and "blast process" are product-by-process limitations. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior art was made by a different process. MPEP 2113.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over United States

Patent 5,835,139 (to Yun et al.) (Published Nov. 10, 1998) in view of Japanese Patent

Application No. 10-171368 (to Yamamoto).

As to claim 4, Yun does not appear to explicitly that the double coated adhesive tape includes acryl rubber.

However, Yamamoto teaches and discloses an image display device in which an adhesive tape comprising an acryl rubber is used to securely hold a large display panel.

It would have been obvious to one of ordinary skill in the art of liquid crystals at the time the invention was made to modify Yun in view of Yamamoto to securely hold a large display panel (Abstracts).

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Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over United States Patent 5,835,139 (to Yun et al.)(Published Nov. 10, 1998) in view of United States Patent 4,762,983 (to Oogita et al.).

As to claim 6, Yun does not appear to explicitly specify that the thickness of the double coated adhesive tape is in the range of 50 to 200 μm .

Oogita is drawn to a thin electronic apparatus in which an adhesive tape is used that has a thickness of 70 or 50 μ m depending on the nature of the adhesive tape (Column 1, Lines 58-60 and Column 2, Lines 1-9 and claim 3).

It would have been obvious to one of ordinary skill in the art of liquid crystals at the time the invention was made to modify Yun in view of Oogita for a device that is thin in size and that resists bending and twisting (Abstract).

INGINGUYEN

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeanne A. Di Grazio whose telephone number is (571)272-2289.

The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim, can be reached on (571)272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jeanne Andrea Di Grazio Patent Examiner Art Unit 2871

JDG

DUNGT. NGUYEN PRIMARY EXAMINED